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POPIELOWICZ, Kazimierz and CZARNOTA, Edward; Regional Sanitation and Epidemiology Station (Wojewodzka Stacja Sanitarno-Epidemiologiczna), Slupsk

"Food Poisoning with Botulin Toxin Type E with Personal Experiences."

Warsaw, Przeglad Epidemiologiczny, Vol 19, No 2, 1965; pp 265-266.

18

B

Abstract: During 4 weeks in August and September 1962, 5 outbreaks of botulin E Type involving 20 persons ended in death of 5, being due to canned herring in tomato paste; probably the fish were infected already in the sea. Proposed preventive measures include production of serum type antitoxin E which is a strain not previously known to cause botulin poisoning in Poland; use of adequate temperature and pressure in canning fish, establishment of microbiological control laboratory at the fisheries' industries in Poland. Presented at the 3rd Scientific Assembly of Polish Epidemiologists and Infectologists, 5-6 Oct 64. [JPRS]

TOPIC TAGS: botulism, food sanitation, antitoxin

SUB CODE: 06 / SUBM DATE: none

Card 1/1 hs

CZARNOTA, I.; ZIELENKIEWICZ, W.;

A differential microcalorimeter. Bul chim PAN 12 no. 3:
209-212 '64.

1. Institute of Physical Chemistry, Polish Academy of Sciences,
Warsaw. Presented by W.Swietoslawski.

SZCZEPANIK, Ryszard; CZARNOTA, Irena

The influence of the main component of crystallization on the
solubility of naphthalene in the oils from the hightemperature coal
tar. Chemia stosow 4 no.1:53-80 '60. (EEAI 9:10)

1. Instytut Chemii Fizycznej w Warszawie
(Naphthalene) (Tar oils) (Coal tar)

CZARNOTA, J.; BARANOWSKI, B.; ZIELINSKI, W.

Characteristics of heat exchange in a differential microcalorimeter.
Bul chim PAN 12 no.8:561-565 '64.

I. Institute of Physical Chemistry of the Polish Academy of
Sciences, Warsaw. Submitted June 11, 1964.

CZARNETKI, T.; CIEFOROWSKI, J.

"Investigation of Calcination of Sodium Bicarbonate of Fluidization." p. 81
(PRZEWODNIK CHYMICZNY, Vol. 10, No. 2, Feb. 1955, Warsaw, Poland)

SO: Monthly List of East European Accessions, (HEAL), IC, Vol. 4,
No. 1, Jan. 1955 Uncl.

CZARNOTA, T.

5

1153

60.08 : 60.094.3 : 547.07 : 547.652.1.00

Czarnota, T., Orłowski J., Ciborowski J. Catalytic Oxidation of Naphthalene to Phthalic Anhydride by Fluidisation.

"O kontaktowym utlenianiu nftalenu do bezwodnika ftalowego metodą fluidyzacji". Przemysł Chemiczny, No. 6, 1953, pp. 293-301, 5 figs., 11 tabs.

- An examination of the catalytic process of oxidising naphthalene to phthalic anhydride by fluidisation on vanadium catalyst. Several catalysts on different carriers were investigated, with various content of vanadium pentoxide and different grain size, prepared by various methods, and a study made of the conditions of fluidisation of individual catalysts and their resistance to abrasion. A discussion is included over the influence of individual parameters of the process, including: temperature, time of contact, ratio of naphthalene to air, on the yield and purity of the product. The best results (ca 75% molar yield, purity ca 99% and feed rate of the catalyst up to 390 g naphthalene/litre of catalyst/hour) were obtained by using a melted catalyst of vanadium pentoxide on corundum. The principal advantage of the method, by comparison with the known processes with an immovable catalyst, consists in the possibility of applying a several times greater feed rate of catalyst and the high purity of phthalic anhydride obtained.

Chmura

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PM

PODAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

Author : Czarnota, Tadeusz; Orlowski, Jan;
Krzonicki, Kazimierz

Inst : -

Title : Oxidation of Anthracene t. Anthraquinone
by a Contact Fluidal Method.

Orig Pub : Przem. chem., 1958, 37, No 3, 167-172

Abstract : Experiments were conducted on a large laboratory scale for the catalytic oxidation of anthracene (I) to anthraquinone (II) in a suspended layer. Contacts (C) of two types were used: impregnated (IC) and fused

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POLAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

Al_2O_3). The mixture is put into an electric furnace and heated with periodic mixing before fusing of the oxides (700-980°, depending on the content of Fe_2O_3), then the temperature is raised by about 50° and maintained for 1 hour, mixing for 5 minutes. C are cooled during mixing, sifted and activated for 2 hours at 500° in a suspended layer. Dust of V_2O_5 is obtained by thermic decomposition of NH_4VO_3 . To obtain homogenous mixtures of $\text{V}_2\text{O}_5/\text{Fe}_2\text{O}_3$ they are mixed, alloyed and the solid alloy is crushed. Grains of the size 0.4-0.3 mm can be

Card : 4/6

CZARNOTA T.

4E2e

5814

Czarnota T., Orlowski J. Preparation of Vanadium Pentoxide by Thermal Decomposition of Ammonium Metavanadate In the Fluidized Bed.

540.881:66.000.5

"Otrzymywanie pięciotlenku wanadu przez termiczny rozkład metawanadanu amonowego metodą fluidyzacji". Przemysł Chemiczny, No. 7, 1958, pp. 472-475, 3 figs., 2 tabs.

The application of the fluidization method to the thermal decomposition of ammonium metavanadate to vanadium pentoxide was examined and worked out on pilot plant scale. The influence of the temperature, and of the time during which the bed remains in the furnace, on the degree of decomposition of ammonium metavanadate was determined. V₂O₅ of 0.0046% N₂ content was obtained at 450°C after 26.5 min. The content of lower vanadium oxides in the product was very small (0.1%). A description is given in this paper of the method of carrying out the process and of the apparatus used.

CZARNOTA, T.

Simultaneous mixing and drying of salts by the fluidizing technique. Tadeusz Czarnota, Andrzej Walny, and Janusz Ciborowski (Inst. Chem. Ogrodnic, Warsaw). Przemysl Chemiczny, 39, 483-9 (1988) English summary.—Simultaneous mixing and drying of NH₄NO₃ and NaCl has been studied on a pilot-plant scale. Both batch and continuous methods were applied. The above salts were also dried by the fluidization technique sep. The batch method produced products with the H₂O content: NH₄NO₃ alone 0.03%, NaCl alone 0.005%, and the mixt. of both salts 0.01%. In continuous operation with residence time 12 min. and temp. 12° the mixt. attained 0.04% H₂O content. The throughput in the pilot plant was 20 kg./hr.

F. J. Hendel

7/6

CZARNOTA, T

10

4E 3 d
29-2 (W/B)
4E 2 C (J)

J-9

ac

Catalytic oxidation of naphthalene to naphthalic anhydride by fluidized technique in a pilot plant. J. H. Tadeusz Czarnota, Jan Iwinski, Jan Orlowski, Janusz Cholewski, Jozef Schirmansen, Altona Orszuk, and Michael Rausch (Inst. Chem. Organic, Warsaw). Przemysl CHIM. 37, 716-719 (1968) (English summary), 703-7 (1968) (no summary).—With V catalyst and 0.4-0.7 sec. contact time the yield was 70-85%. The catalyst was prep'd. by melting V_2O_5 on activated alumina resulting in a grain size 0.42-0.84 mm. and 0.84-2.00 mm. with V_2O_5 content 60%, and also by melting on corundum resulting in a grain size 1.8-1.5 mm. with V_2O_5 content 10%. The catalytic oxidn. was carried out at 450-90° by using 0.1 kg. naphthalene/1 kg. of catalyst/hr. Depending on the grain size and type of catalyst, the height of the catalyst was 30-50 cm. (for corundum catalyst 50 cm. was used). The purity of the raw material was 97-98%. F. J. Hendel

CZARNIOLA, T.

Catalytic oxidation of benzene to maleic anhydride in the fluidized bed. Jan Iwiński and Tadeusz Czarniola (Inst. Gen. Chemistry, Warsaw). *Przemysł Chem.* 38, 621-8 (1950). — Two types of vanadium catalysts were examined, and the melted contact, contg. 7.58 V₂O₅, 1.54 MoO₃, and 0.02% K₂SO₄ on a corundum carrier (mean grain size 0.42 mm.), was superior to the impregnated one. The influence of temp., compn. of reacting benzene mixt., and grain size upon the process yield on lab. and pilot plant scale was studied. A description of the appn. and anal. control methods was given. The optimum process conditions were established as follow: temp. 460°, contact time 2.17 sec., molar ratio benzene-air 1:60, and the feed of catalyst 33 g./kg. hr. The results were: conversion to maleic anhydride 40, total conversion 50, and the yield of reaction about 70 mole-%. As to the by-products, the conversion of benzene to benzoquinone was 0.5 and that to formaldehyde 1.0 mole-%. The maleic anhydride obtained was isolated (80%) at temps. from 50° to 30° by a dry method in a condenser with an internal heat exchanger and 14% by absorbing in water. The raw product contained 97.3% pure anhydride. 21 references.

Zdzisław T. Bleszyński

4
1-9a/2/13)

P/014/60/039/010/003/004
A224/A126

AUTHORS: Wolny, Andrzej, and Czarnota, Tadeusz

TITLE: Drying of polyethylene by a fluidized-bed method

PERIODICAL: Przemysł chemiczny, v. 39, no. 10, 1960, 629-633

TEXT: The paper describes experiments on drying polyethylene in a fluidized bed, which were started upon the initiative of J. Abramowicz. The purpose of these experiments, carried out with the assistance of G. Majkowska, A. Krajewska, and Z. Makuch, was to examine the possibility of drying polyethylene on a large laboratory scale. The experiments were conducted with the use of two methods: a periodical drying method and a continuous drying method. Based on the results obtained, the authors conclude that polyethylene with an initial moisture content of up to 30% can be dried by both fluidized-bed methods, the periodical method as well as the continuous one. The continuous drying method is recommended for industrial use. In this method, the dryer is charged with dry polyethylene to facilitate the starting of the process. Once started, wet polyethylene is fed. The linear

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P/014/60/039/010/003/004
A224/A126

Drying of polyethylene ...

air velocity is 7 to 8 m/sec, at 60 to 80°C. The drying time of a polyethylene charge containing 20% moisture by weight was 30 min. The moisture of the end product was 0.15% by weight. There are 8 figures, 3 tables, and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Zakład Inżynierii Chemicznej Instytutu Chemii Ogólnej,
Warszawa (Department of Chemical Engineering of the Institute
of General Chemistry, Warsaw)

SUBMITTED: April 21, 1960

Card 2/2

CZARNOTA, Tadeusz; CIBOROWSKI, Janusz

Continuous method studies on the decomposition of sodium
hydrogen carbonate in a fluidized bed. Przem chem 42
no. 6:313-317 Je '63.

1. Zaklad Inżynierii Chemicznej, Instytut Chemii Ogólnej,
Warszawa.

IWINSKI, Jan; LESZCZYNSKI, Zbigniew; KUBICA, Jan; RYDACKI, Lucjan;
CZARNOTA, Tadeusz; GRZESIK, Alfons

Laboratory and semicommercial studies on catalytic oxidation
of benzene to maleic acid anhydride by the fixed bed
method. Przem chem 42 no.6:302-305 Je '63.

1. Zaklad Technologiczny i Zaklad Inżynierii Chemicznej,
Instytut Chemii Ogolnej, Warszawa, oraz Zaklady Azotowe,
Kedzierzyn.

POLESZCZUK, Mikolaj, technik; CZARNOTA, Zbigniew, technik; CZYZEWSKI,
Witold, mgr.inz.; PETTKE, Norbert, technik

Two-stage turboset for milling chalky marl sludge. Gosp
paliw 11 Special issue no. (95):51-52 Ja '63.

1. Zjednoczenie Przemysly Cementowego, Sosnowiec (for
Polesczuk and Czarnota). 2. Cementownia, Wejherowo (for
Czyzewski and Pettke).

CZARNOTA, Zbigniew, technik; POLESZCZUK, Mikolaj, technik

Equipment and method for a two current dust removal in mills
for cement and other materials. Energetyka przem 10 no.3:99-
100 '62.

1. Zjednoczenie Przemyslu Cementowego, Sosnowiec.

CZYZEWSKI, Witold, mgr., inz.; ZAKRZEWSKI, Tadeusz, inz.; ROHDE, Wladyslaw,
technik; PETTKE, Norbert, technik; CYWINSKI, Stefan, inz.; KOCIOWSKI,
Tadeusz, technik; CZARNOTA, Zbigniew, technik

Use of cone shaped white cast iron grinders for cement grinding.
Energetyka przem 10 no.3:106-107 '62.

CZARNOTA-BOJARSKA, Marta

Value of serological tests in detecting late congenital syphilis in adults. Polski tygod. lek. 16 no.32:1230-1232 7 Ag '61.

l. Z Poradni Diagnostycznej Wojewódzkiej Przychodni Skorno-Wenerologicznej m. st. Warszawy; dyrektor: dr J. Lapinska.

(SYPHILIS CONGENITAL diag)

CZARNOTA BOJARSKI, R.

Examples of practical increase in the stability of retaining walls. p. 108.

INZYNIERIA I BUDOWNICTWO. (Naczelnna Organizacja Techniczna i Polski Związek
Inżynierów i Techników Budowlanych) Warszawa, Poland.
Vol. 16, no. 3, Mar. 1959.

Monthly list of East European Accessions Index (EEAI), LC, Vol. 8, no. 6,
June 1959
uncl.a.

CZARNOTA-BOJARSKI, Roman, doc.

New method of construction of some foundation works. Inz i bud
19 no.8:287-288 Ag '62.

1. Politechnika, Warszawa.

CZARNOTOWA, Halina, mgr inz.

Problems of raw material basis for the production of phthalic anhydride. Chemik 15 no.11:401-403 N '62,

1. Instytut Chemii Ogólnej, Warszawa.

CZARNOW, Stefan

Office for designing coking plants. Problemy proj hut maszyn
ll no.12:384-387 D '63.

1. Sekretarz Zespolu Komisji J.U.E., Warszawa.

CZARNOWSKA, M.

CZARNOWSKA, M. Technical books in 1955; statistical information. p. 212.

Vol. 77, no. 5, May 1956
PRZEGLAD TECHNICZNY
PHILOSOPHY & RELIGION
Warszawa, Poland

SO: East European Accession, Vol. 6, March 1957

CZARNOWSKA, WANDA

POL. 68

Determinations of volatile ammoniacal bases in the meat of warm-blooded animals by the method of Conway. Wanda Czarnowska. Sekcja Chemiczna Instytutu Gospodarki Rolnej, Krakow. Roczniki Politechniki Krakowskiej, Ser. 5, 1960-001 (1964); cf. Conway and Byrne, "Analyst," 1957, 3307. Organoleptic evaluations of beef and horse meat were correlated with the content of volatile ammoniacal bases of the samples. The level of 10 mg. (expressed in terms of N per 100 g.) of these substances was found to be the limit before spoilage could be detected organoleptically. Anna G. Szczerba

POLAND/Food Processing Industry.

H.

Abs Jour : Ref Zhur - Khimiya, No 19, 1958, 65886
Author : Wierzchowski Jozef, Czarnowska Wanda, Pawlokowa Zofia
Inst : -
Title : An Investigation of Evaporated Milk Domestically
Produced.
Orig Pub : Roczn. Panstw. zakl. hig., 1956, 7, No 5, 389-394.

Abstract : The results are cited of an investigation of the chemical composition and microfluid of evaporated milk with sugar developed by Polish plants in 1953-1956. A careful analysis of the productive process permitted eliminating repeated infection of the product.

Card 1/1

CZARNOWSKA, W.: WIERZCHOWSKI, J.: SZYNIKOWSKI, J.

Hygienic evaluation of baby-food mixtures prepared in milk kitchens. P 267

ROCZNIKI (Panstwowy Zaklad Higieny) Warsaw Vol. 9, no. 3, 1958

Monthly List of East European Accessions (EEAI) LC. Vol. 3, no. 7, July 1959

Uncl.

CZARNOWSKA, W

COUNTRY : Poland
CATEGORY :

ABSTRACT : RAKhim., No. 10 1959, No.

2-67

28584

TITLE : The sanitary evaluation of mayonnaise

ORIG. PUB. : Roczniki Nauk. Zdroj. i. R. No 1, 1954 p. 117

CONTENT : The authors investigated mayonnaise at room temperature and at a 10°C. The bacterial count at first increased insignificantly and decrease after 4 weeks. The authors recommend that the guaranteed period on mayonnaise be of no more than 4 weeks.

first edit. trial version

CARD: 1/1

WIERZCHOWSKI, Jozef; CZARNOWSKA, Wanda; GANOWIAK, Zenon; SEVERIN, Maria

Hygienic evaluation of industrial ice cream production. Roczn
panstw zakl hig 14 no.6:529..536 '63.

1. Department of Food Science, School of Medicine, Gdansk, and
School of Statistics and Economics, Gdansk.

CZARNOWSKI, A.

On our own trail from Muszyna to Rytro. p. 14. TURYSTA.
(Polskie Towarzystwo Turystyczno-Krajoznawcze) Warszawa.
No. 6, June 1956.

SOURCE:

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

CZARNOWSKI, A.

How we organized a tourist camp in the Sacz Beskid Mountains. p. 19;
TURYSTA. (Polskie Towarzystwo Turystyczno-Krajoznawcze) Warszawa;
No. 5, May 1955.

SOURCE: East European Acquisitions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

CZARNOWSKI, A.

The importance and value of agglutination and complement fixation test in the diagnosis of brucellosis in cattle. Med.wet. 6 no.2:
83-84 F '50.
(CLML 19:3)

1. National Veterinary Institute--Regional Institute of Veterinary Hygiene in Gdansk (Head -- Adam Czarnowski, M.D.).

CZARNOWSKI, A.

BUCZOWSKI, Z., CZARNOWSKI, A.

Types of Salmonella bacilli isolated by the District Veterinary Hygiene Station in Gdansk. Med. wet 618, Aug. 50, p. 467-8

1. Of the National Veterinary Institute--of the Regional Institute of Veterinary Hygiene in Gdansk (Head--Adam Czarnowski, M. D.) and of the National Institute of Hygiene in Gdynia (Head--Z. Buczowski, M. D.).

CLML 20, 3, March 1951

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509510002-9

CZARNOWSKI, A.; NOWAK, B.; BUCZOWSKI, Z.

Salmonella bispebierg. p. 168. (MEDYCyna WETERYNARYJNA. Vol. 9, no. 4, April. 1953.

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509510002-9"

CZARNOWSKI, Adam; WITKOWSKI, Edward (Gdansk)

Observations on the biology of Trichomonas bovis. Wiadomosci parazyt., Warsz. 2 no.5 Suppl:193 1956.

l. Wojewodzki Zaklad Higieny Weterynaryjnej.
(TRICHOMONAS,
bovis, biol. (Pol))

POLAND/Diseases of Farm Animals. Diseases Caused by Helminths. R

Abs Jour: Ref Zjur-Biol., No 15, 1958, 69495.

Author : Czarnowski, Adam

Inst :

Title : Poisoning of Swine by Sodium Fluoride after Dehelminthization.

Orig Pub: Med. weteryn., 1957, 13, No 9, 553-554.

Abstract: The poisoning of swine which were dewormed by means of sodium chloride in a dose of 0.25 g./kg. is described. In a space of 5 to 10 days, out of 30 sows 6 perished or had to be killed. In 63 young pigs and 1 car no toxicosis was noted. In the affected animals, sluggishness, salivation, loss of appetite, paresis of the hindquarters, and drop of temperature below normal were observed. On

Card : 1/2

ZIARNOWSKI A

Baranow, Medycyna Weterynaryjna, Vol. 18, No. 3, March 1962.

1. "Plasmocytas in Cattle," - Tadeusz ZELINSKI; pp. 131-137.

2. "Magnetic Bands and the Magnet 'Anisot' in the Treatment and Prophylaxis of Traumatic Reactions in Cattle," - Stanislaw TEPKOWSKI; pp. 138-142.

In Internal Diseases (Institute of Veterinary Faculty of Veterinary Science (Bydgoszcz Veterinary Faculty) of the Higher School of Agriculture (USA) at Lublin (Director: Prof. Dr. Maksym PIANKA); pp. 139-141.

3. "Proteo. Drugs in Veterinary Practice," Mieczyslaw JAKUBOWICZ, of the Veterinary Directorate (Województwo Mazowieckie) of State Agricultural Farms (PGR), Państwowe Gospodarstwo Rolne) at Zielona Góra; pp. 142-143.

4. "Plasmocytas in the Form of Leptospirosis in the Blood of Dogs," Jerry PRISCHER, of the Pathological Anatomy Research Office (Zaklad Analityczno-Przygotowczyjny) of the Faculty of Veterinary Science (Veterinary Faculty) of the SGGW at Warsaw (Director: Prof. Dr. Bolesław SZEWICKI); pp. 144-147.

5. "Observations on the Use of the Vaccine 'R' Against Fowlpox Disease of Birds in Infected Pocks," Jerry KLEIN and Antoni DZIADA, of the Clinic for Infectious Diseases Klinska Chorob Zakaźnych of the Chair of Teratology (Katedra Patologii) of the SGGW at Warsaw (Director: Prof. Dr. S. PIOMARCZYK); pp. 148-149.

6. "Bacteriia 'S' Gallinorum pullorum in Egg Mass," Adam GRABOWSKI, of the Veterinary Veterinary Bureau, Research Office (Wojewódzki Zakład Nauk i Techniki Rolniczych) of Lublin (Director: Dr. Adam GRABOWSKI); pp. 150-152.

7. "Testing the Use of Bouillon with TTC (2, 3, 5-Tetrazolium Chloride) for the Determination of the Titer of Br. Coli in Samples of Milk," Wiesław GLINSKI of the Bydgoszcz Sanitation and Epidemiological Station (Instytut Sanitarno-Epidemiologiczny) and the Municipal Veterinary Research Office (Miejski Zakład Veterinarni) at Łódź; pp. 153-155.

— V3 —

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CZARNOWSKI, Adam

A tourist map, scale 1 : 75000, of Beskids in the vicinity
of Sacz. Reviewed by Adam Czarnowski. Przegl geod 34
no.4:169-170 Ap '62.

CZARNOWSKI, E.

TECHNOLOGY

PERIODICAL: MECHANIK, Vol. 31, no. 7, July 1958

CZARNOWSKI, E. B. Miszulowicz' Modernizacja zakładów przemysłowych (Modernization of Industrial Establishments); a book review. p. 379.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April, 1959, Unclass.

MUSZYNSKI, Zbigniew, prof.; KIMZAL, Kazimierz, inż.; CZARNOWSKI, Edmund, mgr inż.; ŚWIĘTORZECKA, A., mgr inż.; SACZUK, Bolesław, mgr inż.; DĄBROWSKI, St., mgr inż.

On the activities of the scientific and technical association.
Przegl techn no.41:3,4 14.0 '62.

1. Chairman of the Main Administration of the Association of Polish Mechanical Engineers and Technicians, Warsaw (for Muszyński).
2. Secretary General of the Main Administration of the Association of the Polish Electrical Engineers (for Kimzal).
3. Chairman of the Provincial Communicative Committee of the Central Technical Organization, Warsaw (for Czarnowski).
4. Secretary General of the Association of Engineers and Technicians of the Food Industry, Warsaw (for Świętorzecka).
5. Chairman of the Main Administration of the Association of Forestry and Lumber Engineers and Technicians, Warsaw (for Saczuk).
6. Secretary General of the Association of Polish Textile Workers, Łódź (for Dąbrowski).

POLAND/Cultivated Plants - Grains.

H.

Abs Jour : Ref Zmür - Biol., No 10, 1958, 44042

Author : Listowski, A., Czarnowski, J., Kaczorkowna, S., Sawicka, G.

Inst : The Institute for Privately Operated Agriculture of the Chief Agricultural School.

Title : Reaction to the Soil Dryness of the Spring Wheat, Spring Barley and Oat Varieties Cultivated in Poland.

Orig Pub : Roczn. nauk rolniczych, 1956, A72, No 3, 373-421.

Abstract : Experiments were conducted at the Institute of Private Agriculture of the Main Agricultural School during vegetation trials on the pedzolic soil with a total moisture capacity of 36%. Plants subjected to soil dryness for 14 days prior to spiking were compared. The effect of continuous drought was weaker than that of 2-week duration.

Card 1/2

CZARNOWSKI, J.

CZARNOWSKI, J. An annual balance sheet. p. 1st

Vol. 77, no. 5, May 1956
PRZEGLAD TECHNICZNY
PHILOSOPHY & RELIGION
Warszawa, Poland

SO: East European Accesation, Vol. 6, No. 3, March 1957

CZARNOWSKI, J.

Technical press, an indispensable factor in technical progress; the economy
and finance of the technical press. p.2

PRZEGŁAD TECHNICZNY. (Naczelan Organizacja Techniczna) Warszawa, Poland
Vol. 80, no.50, Dec. 1959

Mon^hly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1960

Uncl.

CZARNOWSKI, Jan Wacław, mgr.inz.

Connections of technological press with the association movement.
Przegl techn 81 no.21:1-2 My '60.

1. Przewodniczący Rady Prasy Technicznej, Warszawa.

CZARNOWSKI, J.W., mgr inz.

Problems of the technical press in the light of experiences of
the Technical Periodicals Publishing House of the Chief Technical
Organization. Przegl techn no.40:4, 6 7 0 '62.

1. Dyrektor Wydawnictwa Czasopism Technicznych Naczelnnej
Organizacji Technicznej, Warszawa.

CZARNOWSKI, J.W., mgr inz.

Necessity of changes in the technical press. Przegl techn 84 no.18:
1,3 5 My '63.

CZARNOWSKI, Jan Waclaw, mgr. inz.

Technical press in the service of foreign trade. Przegl techn
84 no.41:3,4 13 0*63

1. Wydawnictwa Czasopism Technicznych, Naczelnna Organizacja
Techniczna, Warszawa.

CZARNOWSKI, Jan Wacław, mgr inż.

The future of technical periodicals in the light of the past
and the present. Przegl. elektrotechn 40 no.6:310-311 Je'64

1. Manager, Technical Periodicals Publishing Agency of the
Central Technical Organization, Warsaw.

CE R'GISTER, L.

Some solutions in the field of automation at the 23rd Moscow International Fair, p. 42

PRZEWODNI TECHNICZNY (Krajowa Organizacja Techniczna)
Warszawa, Poland
Vol. 79, no. 16, August 1980.

Monthly List of East European acquisitions Index (E.E.I.), 1980, Vol. 1, No. 11,
November 1, 1980.
Incl.

CZARNOWSKI, Kazimierz, dr inz.

Thermal expansion coefficient of silica putties. Inz i bud 20
no.7;246-249 J1 '63.

I. Politechnika, Wroclaw.

CZAYKOWSKA, Kryszyna

A case of tuberculous pulmonary cirrhosis complicated by
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(TUBERCULOSIS, PULMONARY)
(DIAGNOSIS, DIFFERENTIAL)
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Apr. 1954
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212-216). [In Polish]. The force and work necessary for
the plastic deformation of a billet under hammers or in
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which plastic deformation takes place. On the basis of the
hypothesis of maximum shear stress and of the energy of
shape deformation, approximate formulae for force and work
applicable to mechanical hammers and presses are deduced.

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of hammer and press forgings of the magnitude of the limiting stress
at which the plastic deformation takes place. Computation of approxi-
mate equations determining these stresses, based on the hypotheses of
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the influence of chemical surface modification. Wiad chem
17 no. 7:395-410 Jl '63.

1. Kierownik Laboratorium Katalizy, Zaklad Naukowo-Badawczy,
Zaklady Chemiczne, Oswiecim.

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P/014/c1/040/008/002/008
D233/D305

AUTHOR: Czarny, Zdzisław

TITLE: The effect of dehydration under various conditions
on the structure of silica gel

PERIODICAL: Przemysł chemiczny, v. 40, no. 6, 1961, 428 - 431

TEXT: The structure of silica gel depends on largely uninvestigated chemical and physical factors during preparation. In the present work, the structural changes occurring on drying or baking the gel at various temperatures and pressures were studied. Silica gel was prepared by hydrolysis of commercial water glass with HCl in a metallic reactor, adjusting the pH to equal 4.5 ± 0.2 when the sol was formed. Transformation of the sols into gels took place in 4-20 minutes, at room temperature. The concentrations employed were usually 7 % for the water glass and 6 % for HCl. The gel was poured onto a plastic tray in a 1 cm layer and allowed to set. It was then cut up into tubes and washed with distilled wa-

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The effect of dehydration ...

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ter at 70°C. A neutral solution, containing 1.5 g of $(\text{NH}_4)_2\text{CO}_3$ per liter, was then added to wash out the chloride. This procedure required ~100 l of water per 250 ml of dry gel. The gel, which was dried at 150°C to a constant weight, had a specific surface of 510-550 m^2/g and a mean capillary diameter of 50 Å. The surface areas were increased to 550-700 m^2/g and other properties were affected when either a different concentration or no electrolyte was used. The material dried at 150°C was divided into portions which were subsequently baked at 150-1100°C, heating up at the rate of 100°C/hr. Samples of hydrogel were heated in an autoclave at 25-1100°C and between 0 and 40 atm. The gels were then additionally dried under atmospheric pressure, at the temperature of dehydration. A number of hydrogel samples was also rapidly heated without predrying. The specific surfaces were measured by the method of Sears (Ref. 13: Anal. Chem. 28, 1981, 1956). Volumes and mean diameters of the capillaries were computed from the measurements of true and apparent densities. Pronounced structural changes were observed at 900°C, when the capillaries were violently

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10.17

The effect of dehydration ...

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scorched, causing a reduction of the specific surfaces, from 770-550 to 100 m²/g. Violent dehydration of hydrogel samples resulted in a sharp reduction of the specific surface area up to 200°C and again above 900°C. This is ascribed to the increased pressure in capillaries caused by escaping steam. Identical results were obtained by L.D. Belyakova and A.V. Kiselev (Ref. 9: Dokl. Akad. Nauk SSSR 119, 2, 98, 1958) although according to Western authors, the changes commence at lower temperatures. Capillary diameters increase slowly at first and rapidly at 1100°C. From dehydrations in the autoclave it was found that the specific surfaces decreased from ~ 550 - 700 m²/g at 1 to ~ 200 m²/g at 40 kg/cm², with a simultaneous increase in mean capillary diameters from ~ 50 to 200 Å. The important changes were found to occur at moderate pressures (5-10 kg/cm²) and were more pronounced the higher the specific surface of the gel. It is concluded that the deciding factor affecting the structure is the pressure of water vapor at 900°C; this can be utilized to prepare gels with predictable properties. There are 3 tables, 3 figures and 17 references: 7 Soviet titles and 10

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11.57

The effect of dehydration ...

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ASSOCIATION: Zakład naukowo-dydaktyczny zakładów chemicznych Oświegim
(Research Department of the Chemical Works at Oświe-

Card 4/4

P/016/62/000/012/003/003
D204/D307

AUTHOR: Czarny, Zdzisław

TITLE: Physicochemical investigations of tantalum pentoxide
- silica gel catalysts for the synthesis of butadiene

PERIODICAL: Wiadomości Chemiczne, no. 12, 1962, 758-766

TEXT: The present work is the author's abstract of his doctorate thesis; the work was carried out under the supervision of Professor Doctor Engineer Zdzisław Sokalski and was submitted for examination to Professor Doctor Adam Bielański and Professor Doctor Edward Trzeszczanowicz. The research was motivated by the absence of fundamental data concerning this system, and was aimed at (a) establishing the effect of the properties of individual components on the properties and activity of the whole system, and (b) explanation of the formation and action of such catalysts. The effects of the conditions of dehydration of the hydrated gel and of acid leaching on the structure were determined, finding a close relation between

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Physicochemical investigations ...

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water vapor pressure during dehydration and the specific surface and capillary diameters in the resultant gel. During a study of the activity of SiO_2 in the synthesis of butadiene from $\text{EtOH}/\text{CH}_3\text{CHO}$, it was found that (1) the controlling stage is the reduction of crotonaldehyde to alcohol, and (2) the main steps (dehydration and condensation leading to $\text{CH}_2=\text{CH}_2$ and crotonaldehyde) are closely connected with surface acidity of the gel. A method of preparing amorphous Ta_2O_5 was developed and some physicochemical properties of this oxide were established. Conductivity tests on crystalline Ta_2O_5 between 200 and 600°C, under N_2 , O_2 , CO_2 , H_2 and air showed that (1) the conductivities at various pressures tended towards the same value at higher temperatures (in the same gas), (2) crystalline Ta_2O_5 behaved as a stoichiometric semiconductor, and (3) complicated surface changes occurred when the oxide was used as a catalyst. Amorphous Ta_2O_5 was considerably more active catalytically than the crystalline form, owing to its proton acidity. The cause of the high activity and selectivity of the $\text{Ta}_2\text{O}_5/\text{SiO}_2$ combination is the surface formation of $\text{Ta}_2\text{O}_5 \cdot \text{SiO}_2$. The catalytic action of Ta contacts points to an

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Physicochemical investigations ...

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acid-base mechanism of the formation of butadiene on these catalysts. The yields of butadiene were drastically reduced in the presence of Na^+ ions (milliequivalents/g catalyst), log (yield) decreasing linearly with Na^+ concentration. The selectivity was also strongly affected by the presence of Na^+ , in a complex manner which depended on the particular reactions occurring during various stages of the process. On the basis of this work a Ta catalyst has been developed, on a laboratory scale, which possesses a selectivity higher than has hitherto been described. The author expresses his gratitude to Prof. Sokalski for suggesting the work and for his assistance, and to the workers of Zakład Naukowo Badawczy w Oświęcimiu (Scientific Research Establishment, Oświęcim). There are 12 figures.

ASSOCIATION: Katedra Chemii Fizycznej Politechniki Gliwickiej
(Department of Physical Chemistry, Gliwice Polytechnic Institute)

Card 3/3

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no.4:609-619 '63.

Pr. Zaklady Chemiczne, Oświecim, Zaklad Naukowo-Badawczy,
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Studies on the catalytic action of "ZrO₂--silica gel and
ZrO₂--silica gel contacts in the synthesis of butadiene
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(JAUNDICE, OBSTRUCTIVE, differ. diag.
infect. hepatitis, value of phosphatase-thymol index (Pol))
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